

H-300 SERIES™

WATER CONDITIONING SYSTEM



System Applications

- Agriculture
- Apartment Buildings
- Boiler Water Treatment
- Car Washes
- Commercial Buildings
- Condominiums
- Dairies
- Factories
- Hospitals
- Homes
- Laundries
- Mobile Home Parks
- Motels and Hotels
- Nursing and Rest Homes
- Office Buildings
- Restaurants
- Schools

The H300 Control is User Friendly and Reliable.

- Modular Design
- Non-Corrosive Internals
- Lead Free Brass Valve¹
- One Piece Stack Assembly
- Piston Operated
- Disassemble and Reassemble in Minutes

¹H300 Valve Bodies have an NSF Approved Food Grade Electro-Deposited Epoxy Coating to Protect Against Corrosion

**Hellenbrand**®

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Going Green

Brine Reclaim – The H300 standard electronic package is capable of reclaiming up to 30% of the salt used in regeneration for the next regeneration. Salt savings will vary depending on the lbs. of salt per cubic foot of resin used to regenerate. A brine reclaim kit is required for this option.

Water Reclaim – The H300 standard electronic package is capable of reclaiming much of the water used to regenerate the water softener and re-use that water to flush toilets. This water is typically soft and is free of the salt/brine discharge which is diverted to your standard drain/waste system. A water reclaim kit is required for this option.

H300 Features and Benefits

- 3.0" Inlet & Outlet provides higher service flows with less pressure drop
- 12-Volt Operation AC or DC
- Electronic Meter Demand with Calendar Day Override
- Scrolling User Screen shows capacity remaining, time of day and flow rate
- 12-Volt Relay Driver allows multiple dry contact signals
- Service Interval Screen reminds you to call for preventative maintenance service
- Differential Pressure Switch Capability
- Fully Programmable Cycle Position and Times
- Nine Cycle Control
- Soft Water Brine Tank Re-Fill
- Multiple Backwash and Rinse Capabilities
- Quiet Operation
- Variable Reserve automatically adjusts to changing water usage patterns.
- Several programming options including: variable reserve, fixed reserve, calendar day override, delayed or immediate regeneration.
- Diagnostics
 - Days since last regeneration
 - Gallons since last regeneration
 - Gallon reserve capacity last 7 days
 - 63 Days history of daily totals usage
 - Maximum flow rate for the last seven days
 - Total number of regenerations
 - Total days in service
 - Total gallons processed
- Permanent memory backup of all programming
- 2-1/2 years Time of Day Backup
- Uses less than \$2 of electricity per year

System Designs Options

Single
Twin
Tri-Plex
Four-Plex
Parallel, Alternating or Demand Recall Configurations.

Meter Accuracy

1.5" Meter 0.5 – 60 gpm
2" Meter 1.5 – 150 gpm
3" Meter 3.5 – 350 gpm
Accuracy: ±5%

HELLENBRAND WARRANTY

Go to www.hellenbrand.com for full details.

Specifications

DEMAND MODEL NAME	MINERAL CU. FT.	LOW SALT GRAINS/LBS.	CAPACITY MED. SALT GRAINS/LBS.	HIGH SALT GRAINS/LBS.	FLOW RATE @ 15 PSI	PEAK FLOW RATE @ 25 PSI	BACK WASH RATE GPM	MINERAL TANK (INCHES)	BRINE TANK ¹	
									TANK SIZE (INCHES)	SALT STORAGE (POUNDS)
H300-300	10	230,000/60	280,000/100	320,000/150	98	126	12	24x72	24x50	640
H300-300-30	10	230,000/60	280,000/100	320,000/150	158	205	20	30x72	24x50	640
H300-450	15	344,000/90	420,000/150	480,000/225	144	186	20	30x72	30x50	1100
H300-600	20	459,000/120	560,000/200	640,000/300	172	222	30	36x72	39x48	1875
H300-750	25	573,000/150	700,000/250	800,000/375	190	244	40	42x72	42x60	2580
H300-900	30	688,000/180	840,000/300	960,000/450	180	238	40	42x72	50x60	4130
H300-1200	40	917,000/240	1,120,000/400	1,280,000/600	194	251	50	48x72	50x60	3497
H300-1500	50	1,146,000/300	1,400,000/500	1,600,000/750	200	260	65	54x72*	60x66	6638
H300-1950	65	1,490,000/390	1,820,000/650	2,080,000/975	205	260	80	60x72*	60x66	6638
H300-2100	70	1,605,000/420	1,960,000/700	2,240,000/1,050	210	270	90	63x86	60x66	6638

Mineral tank sizes shown are with polyglass tanks. (* denotes steel tanks)

Product improvement designs are subject to change without notice.

Refer to Hellenbrand Bulletin 2050 "Flow Rates and Soft Water Quality (Hardness Leakage)" if your application requires that levels of hardness leakage do not exceed "x".



Hellenbrand, Inc.
404 Moravian Valley Road
Wausaukee, WI 53597
www.hellenbrand.com

DEALER NAME:





Hellenbrand[®]

H300 Specifications

Model #		H300-300	H300-300-30	H300-450	H300-450-36	H300-600	H300-750	H300-900	H300-1200	H300-1500	H300-1950	H300-2100
Factory Settings												
Backwash	Minutes	10	10	10	12	12	12	12	12	12	12	12
	Gallons	120	200	200	360	360	480	480	600	780	960	1080
Brine Rinse	Minutes	60	60	70	80	80	80	80	80	80	80	80
	Gallons	174	270	315	360	480	560	560	800	1440	1440	1440
Fast Rinse	Minutes	8	8	8	10	10	10	10	10	10	10	10
	Gallons	96	160	160	300	300	400	400	500	650	800	900
Fill	minutes	16.7	16.7	25	25	33.3	16.7	20	26.7	16.7	21.7	23.3
	Gallons	33	33	50	50	67	84	100	134	167	217	233
Total Regeneration Gallons		423	663	725	1070	1207	1524	1540	2034	3037	3417	3653

*Calculations are based on factory medium salt setting @ 50 psi

Refill LBS / minutes	Lbs. Min.	Lbs. Min.	Lbs. Min.	Lbs. Min.	Lbs. Min.	Lbs. Min.	Lbs. Min.	Lbs. Min.	Lbs. Min.	Lbs. Min.	Lbs. Min.	Lbs. Min.
Efficient Salt	50 8.4	50 8.4	76 12.5	76 12.5	100 16.7	126 8.4	150 10	200 13.4	250 8.4	326 10.8	350 11.7	
Low Salt	60 10.0	60 10.0	90 15.0	90 15.0	120 20.0	150 10.0	180 12.0	240 16.0	300 20.0	390 26.0	420 28.0	
Medium Salt	100 16.7	100 16.7	150 25	150 25	200 33.3	250 16.7	300 20	400 26.7	500 16.7	650 21.7	700 23.3	
High Salt	150 25	150 25	226 37.5	225 37.5	300 50	375 25	450 30	600 40	750 25	975 32.5	1050 35	

Capacity - KGrains												
Efficient Salt - 4000 grains/lb	200	200	300	300	400	500	600	800	1000	1300	1400	
Low Salt - 3821 grains/lb	230	230	344	344	459	573	688	917	1146	1490	1605	
Medium Salt - 2800 grains/lb	280	280	420	420	560	700	840	1120	1400	1820	1960	
High Salt - 2133 grains/lb	320	320	480	480	640	800	960	1280	1600	2080	2240	

Service Flow Rates												
Continuous @ 15 Psi	98	158	144	172	172	190	180	194	200	205	210	
Peak @ 25 Psi	126	205	186	222	222	244	238	251	260	260	270	

Under bed (lbs)	150	200/75	200/75	300/150	300/150	500/175	500/175	500/200	900/400	1100/500	1200/600	
High Capacity Resin (cf)	10	10	15	15	20	25	30	40	50	65	70	
Resin Tank Size	24x72	30x72	30x72	36x72	36x72	42x72	42x72	48x72	54x72 steel	60x72 steel	63x86	
Recommended Brine Tank	24x50	24x50	30x50	30x50	39x48	42x60	50x60	50x60	60x66	60x66	60x66	
Grid Height	11"	15"	11"	11"	9"	11"	8"	16"	8"	8"	8"	
Min/Max Salt Setting in Lbs.	53/98	76/110	83/159	83/159	109/246	162/376	153/493	357/601	220/782	220/782	220/782	
DLFC	12	20	20	30	30	40	40	50	65	80	90	
BLFC	2	2	2	2	2	5	5	5	10	10	10	
Injector	2C	2D	2D	2D	2E	2F	2F	2G	2H	2H	2H	
Injector Draw Rate (gpm @ 50 psi)	2.1	3.1	3.1	3.1	4.1	5	5	7	12	12	12	
Injector Slow Rinse (gpm @ 50psi)	2.9	4.5	4.5	4.5	6	7	7	10	18	18	18	
Factory Meter Setting	12,600	12,600	18,900	18,900	25,200	31,500	37,800	50,400	63,000	81,900	88,200	

*Factory meter settings are based on 20 grain per gallon compensated hardness and a 10% safety factor

Factory Default settings in bold

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COMMERCIAL WATER SOFTENER & FILTER LIMITED WARRANTY

**INCLUDES – H125, H125 HE, H151, H151 HE, H200, H200HE, H200M, H300,
NF, TS, TN2 & TNT SYSTEMS**

Hellenbrand, Inc., (“Hellenbrand”) warrants to the original purchaser that the system and the parts listed below will be free from defects in material and/or workmanship from the date of the original installation for the following time periods:

For a Period of FIVE YEARS: The filter control valve electrical parts including the motor and board, control valve body, and internal parts.

For a Period of FIVE YEARS: SystemMate Controller.

For a Period of TEN YEARS: Mineral tanks, 6” Diameter - 13” Diameter.

For a Period of FIVE YEARS: Mineral tanks, 14” Diameter - Up.

For a Period of FIVE YEARS: The salt storage/cabinet tank.

For a Period of ONE YEAR: The entire water conditioner system (“System”).

Any parts used for replacement are warranted for the remainder of the original warranty period for the applicable part.

THIS WARRANTY IS EFFECTIVE TO THE ORIGINAL PURCHASER ONLY, AND ONLY FOR AS LONG AS THE SYSTEM REMAINS AT THE ORIGINAL INSTALLATION SITE. COVERAGE TERMINATES IF YOU SELL OR OTHERWISE TRANSFER THE SYSTEM OR IF THE SYSTEM IS MOVED FROM THE ORIGINAL INSTALLATION SITE.

No sales representative, distributor, agent, dealer, reseller, authorized seller or any other person or entity is authorized to make any other warranty, or modify or expand the warranty provided herein on behalf of Hellenbrand. Upon expiration of the applicable warranty period, Hellenbrand shall have no further liability related to the System/parts to which the warranty period applies, except with respect to valid warranty claims asserted during the appropriate warranty period.

If the System or any part described above becomes defective within the specified warranty period, you should notify your local authorized seller of Hellenbrand products, and arrange a time during normal business hours for the inspection of the System at the original installation site. You may also contact Hellenbrand and we will provide you with the contact information for your local authorized seller of Hellenbrand products. Hellenbrand, at its option, will repair or replace the System or any part found defective within the terms of this warranty. You are responsible for freight from our factory and any service fees charged by the local authorized seller of Hellenbrand products for installation, repair, removal, replacement, service, etc., of any System or parts. This warranty does not include any labor charges. This paragraph sets forth the exclusive remedy for any valid warranty claims against Hellenbrand.

THIS WARRANTY DOES NOT COVER defects caused by sand, sediment or bacteria fouling, accident, fire, flood, Act of God, misuse, misapplication, neglect, alteration, installation or operation contrary to Hellenbrand’s printed instructions, or installation, repair or service by anyone other than Hellenbrand or an authorized seller of Hellenbrand products.

IN ADDITION, THIS WARRANTY DOES NOT COVER UNPROTECTED OUTDOOR INSTALLATIONS. This System, including all of the electrical components, must be protected against windblown dust, falling and windblown rain, freezing temperatures and the formation of ice, with an appropriate enclosure consisting of a floor, roof, walls, ventilation and heat.

As a manufacturer, we do not know the characteristics of your water supply or the purpose for which you are purchasing this system. You should be aware that the quality of water supplies may vary seasonally or over a period of time, and that your water usage rate may vary as well. Water characteristics may change considerably if this System is moved to a new location. For these reasons, Hellenbrand assumes no liability for the determination of the proper equipment necessary to meet your needs; and Hellenbrand does not authorize others to assume such obligations for Hellenbrand.

TO THE EXTENT PERMITTED BY APPLICABLE LAW, REMEDIES FOR DEFECTS OR FAILURES ARE LIMITED TO THE REMEDIES PROVIDED IN THIS WARRANTY. THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE SET FORTH HEREIN. TO THE EXTENT PERMITTED BY APPLICABLE LAW, HELLENBRAND HEREBY DISCLAIMS ALL OTHER WARRANTIES, WHETHER STATUTORY, EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, NON-INFRINGEMENT, OR ANY WARRANTIES ARISING FROM COURSE OF PERFORMANCE, COURSE OF DEALING, OR FROM USAGES OF TRADE.

UNDER NO CIRCUMSTANCES SHALL HELLENBRAND BE LIABLE TO THE ORIGINAL PURCHASER OR TO ANY OTHER PERSON FOR ANY INCIDENTAL, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES OR FOR ANY OTHER LOSS, DAMAGE, OR EXPENSE OF ANY KIND, INCLUDING LOSS OF PROFITS, WHETHER ARISING OUT OF BREACH OF WARRANTY, BREACH OF CONTRACT, IN TORT OR OTHERWISE, AND REGARDLESS OF WHETHER HELLENBRAND WAS AWARE OF THE POSSIBILITY OF SUCH LOSS. THESE LIMITATIONS WILL APPLY REGARDLESS OF ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you. Similarly, some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Hellenbrand products are not for sale or distribution into the State of California effective 8/31/18.